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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,594	12/31/2003	Ryan Charles Catherman	RPS920030206US1	8589
45503 DILLON & YU	7590 12/12/2007 JDELL LLP	EXAMINER		
8911 N. CAPITAL OF TEXAS HWY.,			PATEL, NIRAV B	
SUITE 2110 AUSTIN, TX 78759			ART UNIT	PAPER NUMBER
•			2135	
			MAIL DATE	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/750,594	CATHERMAN ET AL.				
onico nonon cumua,	Examiner	Art Unit				
The MAILING DATE of this communication ap	Nirav Patel	t with the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to become	UNICATION.  In y a reply be timely filed  MONTHS from the mailing date of this communication.  The ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 S	Responsive to communication(s) filed on 21 September 2007.					
<del>, _</del> ,	$\cdot$ .					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4) Claim(s) 1-8,10,11 and 17-24 is/are pending i 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-8,10,11 and 17-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected if the draw	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1 Certified copies of the priority document 2 Certified copies of the priority document 3 Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received Drity documents have beau (PCT Rule 17.2(a)).	n Application No een received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Paper 5) Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application				

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### **DETAILED ACTION**

- 1. This action in responsive to the communication filed on Sep. 21, 2007. Claims 1-8, 10, 11, 17-24 are pending.
- 2. Applicant's election without traverse of the elected group I, claims 1-8, 10, 11, 17-24, in the reply filed on 9/21/07 is acknowledged. Claim 12, 13, 14, 15 are withdrawn and canceled by the applicant from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group II and III, there being no allowable generic or linking claim.
- 3. The filing of a terminal disclaimer in compliance with 37 CFR 1.321(c) overcomes the double patenting rejection and the rejection is withdrawn.

## **Claim Objections**

4. Claim 11 is objected to because of the following informalities:

Claim 11 recites "A TPM device manufactured and authenticated according to the step of claim 1". The device claim 11 depends on the method claim 1, which is improper form of dependent claim.

Appropriate correction is required.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-6, 8, 10, 11, 17-22 and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Challener (US Pub. No. 2002/0169717) in view of Kean (US Pub. No. 2002/0199110) and in view of Smith (US 6,233,685).

# As per claim 1, Challener teaches:

generating for a valid device an endorsement key pair that includes a private key and a public key (paragraphs 0022-0024, public key, P2, and private key, P4), wherein said private key is not public readable (inherent trait of public/private key pairs); creating a non-public, non-public, secure value (paragraph 0021 and 0024, private key, P3); and inserting an endorsement certificate into said device to indicate that said device is an approved device by an OEM (original equipment manufacturer) of the device (paragraph 0024, certificate, C2).

Kean teaches creating a non-public, secure value that is provided to both a plurality of valid devices and a credential server, wherein the value is a first value that is provided to a first set of said plurality of valid devices and a second set of said plurality of valid devices are provided a second value, based on a pre-defined method for determining when to change said first value to said second value from among: a passage of a pre-set amount of device manufacturing time and a preset number of manufactured devices from among the plurality of valid devices [Fig. 2, paragraph 0012, 0191].

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time

the invention was made to combine Kean with Challener, since one would have been

motivated to prevent reverse engineering and protect confidential information [Kean,

paragraph 0028].

Smith teaches, verifying by utilizing said non-public, secure value that an endorsement

key of said valid device is a valid endorsement key of said endorsement key pair that

was generated during manufactured of said valid device, wherein a function of a first

copy of said non-public, secure value within said credential server matches a similar

function of a second copy of said non-public, secure value associated with the

endorsement key received at the credential server [col. 8 lines 35-67 to col. 9 lines 1-

281.

It would have been obvious to one of ordinary skill in the art at the time of invention to

combine the method of Challener for generating an endorsement key, creating a signing

key, and inserting an endorsement certificate with the method of Smith et al. for

verifying that a key is in fact a key from the device in order to certify the device [Smith,

col. 8 lines 60-63].

As per claim 2, the rejection of claim 1 is incorporated and Smith teaches:

said non-public, secure value is a secret number and said method further comprises

forwarding a first copy of said secret number via a secure communication medium to

said credential server [col. 9 lines 12-17].

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As per claim 3, the rejection of claim 1 is incorporated and Challener teaches:

hashing a second copy of said secret number with a public key from said endorsement

key pair; combining a first hash result from said hashing step with the public key to

create the endorsement key (EK); and forwarding said EK to said credential server to

initiate a credential process [paragraph 0023].

As per claim 4, the rejection of claim 1 is incorporated and Challener teaches:

receiving said EK from said device at the credential server; hashing the public key

within the received EK with the first copy of said secret number received during said

forwarding step to provide a second hashed value; comparing the first hashed value

from within the EK with the second hash value; and confirming said EK is from a valid

device when said comparing step results in a match [paragraph 0023].

As per claim 5, the rejection of claim 1 is incorporated and Challener teaches:

a CA which inherently stores the credential in a database of said credential server;

monitors for a request from a customer to provide said certificate to said device (this is

done with the request for certification); and following a receipt of said customer request,

transmitting said certificate to said device to be inserted within the device (this is done

after the certification).

As per claim 6, the rejection of claim 1 is incorporated and Challener teaches:

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It is inherent in TCPA for the endorsement key to be once writable, public readable [see

TCPA Spec 1.1b, page 261] therefore it would have been obvious to one of ordinary

skill in the art to make the certificate once writable, public readable.

As per claim 8, the rejection of claim 1 is incorporated and Smith teaches:

that the CA can be a remotely located third party with a secure connection [column 8

lines 31-43].

As per claim 10, the rejection of claim 1 is incorporated and Challener teaches:

creating/manufacturing and authenticating a Trusted Platform Module in the Abstract

and paragraph 6.

As per claim 11, the rejection of claim 1 is incorporated and it encompasses limitations

that are similar to limitations of claim 1. Thus, it is rejected with the same rationale

applied against claim 1 above.

As per claim 17, it encompasses limitations that are similar to limitations of claim 1.

Thus, it is rejected with the same rationale applied against claim 1 above.

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As per claim 18, the rejection of claim 17 is incorporated and it encompasses limitations

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that are similar to limitations of claim 2. Thus, it is rejected with the same rationale

applied against claim 2 above.

As per claim 19, the rejection of claim 18 is incorporated and it encompasses limitations

that are similar to limitations of claim 3. Thus, it is rejected with the same rationale

applied against claim 3 above.

As per claim 20, the rejection of claim 19 is incorporated and it encompasses limitations

that are similar to limitations of claim 4. Thus, it is rejected with the same rationale

applied against claim 4 above.

As per claim 21, the rejection of claim 17 is incorporated and it encompasses limitations

that are similar to limitations of claim 5. Thus, it is rejected with the same rationale

applied against claim 5 above.

As per claim 22, the rejection of claim 17 is incorporated and it encompasses limitations

that are similar to limitations of claim 6. Thus, it is rejected with the same rationale

applied against claim 6 above.

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As per claim 24, the rejection of claim 17 is incorporated and it encompasses limitations

that are similar to limitations of claim 8. Thus, it is rejected with the same rationale

applied against claim 8 above.

6. Claims 7 and 23 rejected under 35 U.S.C. 103(a) as being unpatentable over

Challener (US Pub. No. 2002/0169717) in view of Kean (US Pub. No. 2002/0199110) in

view of Smith (US 6,233,685) and in view of Wood et al (US Pub. No. 2006/0072747).

As per claim 7, the rejection of claim 1 is incorporated and Wood teaches:

using a temporary key pair [figure 6, step 605-645; paragraphs 36-39] after which the

key is no longer used (discarded).

It would have been obvious to one of ordinary skill in the art at the time of invention to

combine the method and system of Challener and Smith et al. with the temporary key of

Wood et al. in order to provide additional security [Wood et al, paragraph 0039].

As per claim 23, the rejection of claim 17 is incorporated and it encompasses limitations

that are similar to limitations of claim 7. Thus, it is rejected with the same rationale

applied against claim 7 above.

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## Response to Amendment

7. This written action is responding to the communication filed on Sep. 21, 2007. Applicant's amendment filed on June 11, 2007 has been considered. Among the amended claims 1, 17 have been modified to include the limitation from claim 9 and 25 respectively. However, upon further consideration, a new ground(s) of rejection is based on Challener (US Pub. No. 2002/0169717) in view of Kean (US Pub. No. 2002/0199110) and in view of Smith (US 6,233,685). See new ground of rejection above.

### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee et al (US 6950941) – Copy protection system for portable storage media

Matsumoto et al (US 6711264) – Security improvement method and security system

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirav Patel whose telephone number is 571-272-5936. The examiner can normally be reached on 8 am - 4:30 pm (M-F).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**NBP** 

12/8/07

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